

Ryan Gallagher

Software Engineer



Experience

Apr. 2025 - Present Seoul, Korea
위버스브레인
(WeaversBrain)
Software Developer - AI Lab

Developed language learning applications featuring an AI-powered tutor, utilizing **NextJS**, **React Native**, and **Python**.
Developed and fine-tuned LLM, TTS, STT models to improve performance and user experience

Aug. 2023 - Feb. 2025 Daejeon, Korea
Graduate Student Research Assistant **Ubiquitous Virtual Reality Lab, KAIST**

Conducted research in Context-Aware AR, Wearable Computing, HCI, AI and AR/VR applications, leveraging **Unity**, **Python**, and **Java** to develop interactive and immersive experiences for investigations.

Oct. 2024 - Feb. 2025 Auckland, New Zealand
Research Intern **Empathic Computing Lab**

Assisting in developing a biofeedback-driven VR compassion meditation system in **Unity**, analyzing empirical data, programming machine learning algorithms for breath sensor data, and managing **Python** servers for physiological data collection.

Aug. 2022 - Aug. 2023 Daejeon, Korea
Graduate Student Research Assistant **Autonomous Vehicles and Robotics Lab, KAIST**

Conducted research in mmWave radar and autonomous vehicle perception, utilizing **Python** for data analysis, sensor processing, algorithm development, and computer vision.

Nov. 2021 - May 2022 Chiang Mai, Thailand
Software Engineer **Simya Solutions - Ling**

Developed Language Learning apps using **React Native**, **Firebase**, and **NodeJS**. Developed websites with **ReactJS**, **NodeJS**, **Firebase** and **Redux**. Set up test, build, and deployment CI/CD pipelines in GitLab which utilized **fastlane**, slack and **NodeJS**. Created slack commands to automate content uploading.

Jul. 2021 - Sep. 2021 Zhangjiajie, China
Camp Leader **Gotoco China**

Taught English to Chinese children aged 6 - 14. Organised group activities and craft sessions. Worked as a member of a culturally diverse team. Acquired a TEFL certificate.

Jul. 2018 - Sep. 2018 London, United Kingdom
Engineering Intern **Kiwi Power**

Developed web applications in **Scala**, **React** and **Elm**. Worked with software and firmware as part of the technology team. Performed QA of modules. Developed programs in **Java** and **Python** which analysed the performance of electrical sites.

Education

2022 - 2025 Daejeon, Korea
Masters in Culture Technology **Korea Advanced Institute of Science and Technology (KAIST) - UVR Lab**

2020 - 2021 Seoul, Korea
Korean Language **Ewha Language Center**

2018 - 2019 Kowloon Tong, Hong Kong
International Year Exchange **Hong Kong Baptist University**

2016 - 2020 Keele, United Kingdom
BSc Honours Computer Science **Keele University**

Skills

Technical Skills: Python, Java, C#, C++, JavaScript, SQL, Kotlin, React, Unity, React Native, Node.js, Firebase, Redux, Git, Arduino, Raspberry Pi, NextJS, TypeScript

Creative Skills: Photo Editing, Video Editing, Game Design

Interpersonal Skills: Teamwork, Cross-Cultural Collaboration, Reliability, Positivity

Awards

Seoul Global Startup Center Hackathon Creative Award Winner
Coding with Lewis Hackathon Honorable Mention

Extracurricular

Hackathons, GameJams and Programming Projects
KAIST Table Tennis Club Member
Language and Cultural Exchange Meetings Attendee